

IN THE CLAIMS:

1. A carburetor arrangement for an internal combustion engine in a manually guided implement, comprising:

5 a regulating chamber that is delimited by a regulating diaphragm and that, upon deflection of said regulating diaphragm, is connected with a fuel tank, wherein said regulating chamber via at least one nozzle opens into an air channel that conveys fuel/air mixture to the internal combustion engine;

10 a scavenging pump disposed in a return line that leads from said regulating chamber to said fuel tank wherein a pump chamber is formed in said scavenging pump; and

an intake mechanism that is provided with a supply line that is adapted to establish communication from said pump chamber into said air channel.

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2. A carburetor arrangement according to claim 1, wherein a first valve is disposed in said supply line.

3. A carburetor arrangement according to claim 2, wherein in a run-up phase of said internal combustion engine, said first valve is open.

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4. A carburetor arrangement according to claim 2, wherein a second valve is disposed in a pressure line that opens into said pump chamber.

5. A carburetor arrangement according to claim 4, wherein said pressure line connects a crankcase of said internal combustion engine with said pump chamber.

5 6. A carburetor arrangement according to claim 4, wherein a check valve is disposed in said pressure line.

7. A carburetor arrangement according to claim 4, wherein said first valve and said second valve are coupled in such a way that both valves are either opened or closed.

10 8. A carburetor arrangement according to claim 4, wherein a third valve is disposed in said return line downstream of said pump chamber.

9. A carburetor arrangement according to claim 8, wherein a fourth valve is disposed in said return line upstream of said pump chamber.

15 10. A carburetor arrangement according to claim 9, wherein said third valve and said fourth valve are coupled in such a way that both valves are either opened or closed.

20 11. A carburetor arrangement according to claim 9, wherein said first valve is coupled with said third valve in such a way that one of said first and third valves is opened and the other of said third and first valves is closed.

12. A carburetor arrangement according to claim 9, wherein said second valve is coupled with said fourth valve in such a way that one of said second and fourth valves is opened and the other of said fourth and second valves is closed.

5 13. A carburetor arrangement according to claim 1, wherein a throttle valve is disposed in said supply line.

14. A carburetor arrangement according to claim 1, wherein a check valve is disposed in said supply line, and wherein said check valve has an opening pressure that is greater than a pressure that
10 during idling of the internal combustion engine prevails in a pressure line that opens into said pump chamber.

15. A carburetor arrangement according to claim 14, wherein said check valve has an opening pressure of 100 to 600 mbar, especially 200 to 400 mbar.

15 16. A carburetor arrangement according to claim 9, wherein said first valve, said second valve, said third valve and said fourth valve are formed in a common valve slide 31.

17. A carburetor arrangement according to claim 16, wherein disposed in said air channel are a pivotably mounted butterfly valve,
20 and upstream of said butterfly valve a pivotably mounted choke valve.

18. A carburetor arrangement according to claim 17, wherein a position of at least one of said first, second, third and fourth valves – is coupled with a position of said choke valve.

5 19. A carburetor arrangement according to claim 18, wherein a control lever is provided, and wherein a position of said control lever couples said choke valve with a position of said valve slide.

20. A carburetor arrangement according to claim 18, wherein when said choke valve is open, said first valve is open.

10 21. A carburetor arrangement according to claim 18, wherein when said choke valve is closed, said third valve is open.

22. A carburetor arrangement according to claim 8, wherein a cover element is provided, wherein a position of said cover element is coupled to a position of said third valve, and wherein said cover element releases said scavenging pump when said third valve is open.

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